藤女子大学紀要, 第 41 号, 第 II 部 : 89-114. 平成 15 年.
Bull. Fuji Women's University, No. 41, Ser. II : 89-114. 2003.

MISCELLANEOUS PAPERS ON TURBELLARIANS

by

MASAHARU KAWAKATSU, EUDÓXIA MARIA FROEHLICH, HUGH D. JONES, ROBERT E. OGREN, MASAYUKI TAKAI and GEN-YU SASAKI

ARTICLE I

A LIST OF PUBLICATIONS ON JAPANESE TURBELLARIANS (2002) …… INCLUDING TITLES OF PUBLICATIONS ON FOREIGN TURBELLARIANS WRITTEN BY THE JAPANESE AUTHORS ……

Compiled and Annotated by MASAHARU KAWAKATSU, MASAYUKI TAKAI and GEN-YU SASAKI

日本産渦虫類文献目録 (2002)－外国産渦虫類に関する邦人著作を含む－
川 勝 正 治 ・ 高 井 成 幸 ・ 佐 々 木 玄 祐 (編著)

In a series of publications, of which this is the thirty-fifth, we have collected and classified chronologically the titles of papers and records with regard to our Turbellarians, which were published during the year 2002. As usual we have added the English titles of Japanese papers which have none of any foreign language.

July 1, 2003. Sapporo, Saga and Tôkyô, Japan.

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A LIST OF PUBLICATIONS ON JAPANESE TURBELLARIANS (2002)

Additional Key to the Japanese Journals
国内雑誌一覧表

あおがえる通信(エコロジカルな地域をつくる News Letter). 平方エコネット プロジェクト チーム (代表 : 古谷愛子 / 自然工房じゃら). 枚方, 越谷市. Awogaeru Tsûshin (A Newsletter of the Hirakata Econet Project Team). Hirakata, Koshiya.

治療学 (月刊). ライフサイエンス社. 東京. Biomedicine & Therapeutics (A Monthly Journal). Life Science Publisher. Tôkyô.

フィールドレポーター 掲示板 (琵琶湖博物館). 草津市. Field Reporter (Lake Biwa Museum). Kusatsu.

弘前大学総合情報処理センター広報. 弘前大学. 弘前市. HIROIN. Hirosaki Daigaku Sôgô-Jôhô Center, Kôhô. Hirosaki University. Hirosaki.

実験医学 (月刊). 羊土社. 東京. Jikken Igaku (A Monthly Journal of Molecular Biology and Medical Science). Yôdo-sha. Tôkyô.

Journal of Biochemistry. The Japanese Biochemical Society. Tôkyô.

那覇植物防疫情報. 那覇植物防疫事務所. 那覇市. Naha Shokubutsu-Bôeki Jôhô. Naha, Okinawa.

ニュートン. ニュートンプレス. 東京. Newton / Graphic Science Magazine. Newton Press Publisher. Tôkyô.

Peptide Science. The Japanese Peptide Society. Tôkyô.

生化学. 日本生化学会. 東京. Biochemistry. The Japanese Biochemical Society. Tôkyô.

植物防疫所調査研究報告. 農林水産省 横浜植物防疫所. 横浜市. Research Bulletin of the Plant Protection Service, Japan. The Plant Protection Service of the Ministry of Agriculture, Forestry and Fishery, Japan. Yokohama.

Welcome to 'planarian.net'! KAWAKATSU-&-SASAKI's Webpages on Planarians, Sapporo and Tôkyô. ISSN 1348-3412 Supervisor: Masaharu Kawakatsu (DQA01524@nifty.ne.jp); Webmaster: Gen-yu Sasaki (gen-yu@mtc.biglobe.ne.jp) This web site is a continuation from the 'Occ. Publ., Biol. Lab. Fuji Women's College, Sapporo (Hokkaidô), Japan': Nos. 1-34, for 1970-2000; ISSN 0917-4362). http://planarian.net

月刊 薬事. 薬事時報社. 東京. Yakuji (A Monthly Journal of Pharmacology and Medicine). Yakuji-Jihô-sha. Tôkyô.

1992 (平成 5 年)

Itô, H. [The first occurrence record of a predator of giant African snail (*Achatina fulica*) in the Ryûkyû Islands: *Platydemus manokwari*]. Naha Shokubutsu-Bôeki Jôhô, (86): 434. (Jap.) 伊藤 春樹. アフリカマイマイの天敵調査で本邦未記録のコウガイビル (*Platydemus manokwari*) を発見. 那覇植物防疫所情報, 86 号, 434 頁.

Kaneda, M., Kitagawa, K., Nagai, H. & Ichinohe, F. The effects of temperature and prey species on the development and fecundity of *Platydemus manokwari* de Beauchamp (Tricladida: Terricola: Rhynchodemidae). Res. Bull. Plant Protect. Service, Japan, (28): 7-11.

Nishikawa, ? (only the family name is given). [A survey of natural enemy of a giant African snail in Ryûkyû]. Naha Shokubutsu-Bôeki Jôhô, (86): 431. (Jap.) 西川 ? アフリカマイマイの天敵に関する調査. 那覇植物防疫所情報, 86 号, 431 頁.

1995 (平成 8 年)

Anon. [Miyama-uzumushi (*Phagocata vivida* (Ijima et Kaburaki, 1916)) in Hyôgo Prefecture]. In: "Red Data Book Hyôgo", pp. 33, 102, 280. Kankyô-kanri-ka, Kankyô-kyoku, Hoken-Kankyô-bu, Hyôgo Pref., Kôbe. (Jap.) 無記名. ミヤマウズムシ *Phagocata vivida*. 兵庫県保健環境部 環境局環境管理課 (編), 兵庫県の貴重な自然－兵庫県版レッドデータブック, 33 頁, 102 頁, 280 頁. 名称だけ. 財団法人 兵庫県環境科学技術センター, 神戸.

1998 (平成 11 年)

Kagei, M. [Current topics of parasitic helminthiasis － 2]. Yakuji, 30, (11): 133-146 (2389-2402). (Jap.) 影井 昇. 最近話題の寄生虫病 (2). 月刊薬事, 30 巻, 11 号, 133-146 頁 (2389-2402 頁).

Note. Kagei (1998) cited the record of Ash (1976). A natural infection with third stage larvae of *Angiostrongylus cantonensis* were found in a land planarian species from New Caledonia (cf. Alicata, 1962, 1964; Alicata & Jindrak, 1970).

Nî-mura, F. [Distribution and ecology of freshwater planarians in the Azumi district, Nagano Prefecture, Honshû, Japan]. In: The Editorial Commitee of Azumi-Sonshi (ed.), "Azumi-Sonshi", vol. I, Nature, pp. 610-613. (Jap.) 新村文男. プラナリアの分布と生態. 安曇村誌編纂委員会 (編), "安曇村誌", 第 1 巻 (自然), 第 5 章, 610-613 頁. 安曇村 (南安曇郡), 長野県.

1999 (平成 12 年)

Kobayashi, M., Takezawa, S., Hara, K., Yu, R., Umesono, Y., Agata, K., Taniwaki, M., Yasuda, K. & Umesono, K. Identification of a photoreceptor cell-specific nuclear receptor. Proc. Natl. Acad. Sci., USA, 96: 4814-4819.

2001 (平成 13 年)

Asami, M., Nakatsuka, T., Hayashi, T. & Agata, K. Study on planarian regeneration － planarian stem cell system. Jikken Igaku, 19 (15: An Extra No.): 174-179 (2096-2101). (Jap.) 浅見真紀・中塚剛史・林 哲太郎・阿形清和. プラナリアにおける再生研究－プラナリア幹細胞に迫る. 実験医学, 19 巻, 15 号 (増刊), 174-179 頁 (2096-2101 頁). 特集号の第 2 章 再生医学・再生医療の現状と可能性の 3 節.

Ito, H., Saito, Y., Watanabe, K. & Orii, H. Epimorphic regeneration of the distal part of the planarian pharynx. Dev. Genes. Evol., 211: 2-9.

Shibata, N., Ogawa, K. & Agata, K. [Planarian stem cell system and regeneration]. Biomedicine & Therapeutics, 35, (10): 11-15 (1035-1039). (Jap.) 柴田典人・小川和也・阿形清和. 幹細胞システムと再生. 治療学, 35 巻, 10 号, 11-15 頁 (1035-1039 頁).

Timoshkin, O. A. (ed.). Annotirovannyĭ Spisok Fauny Ozera Baĭkal i Ego Vodosieornogo Bacceĭna, Tom I, Ozera Baĭkal. Kniga 1. 1-831 pp. + 16 color photographic pages. Nauka, Novosibirsk. English title: Index of Animal Species Inhabiting Lake Bakal and Its Catchment Area. Vol. I, Lake Baikal.

Note. This volume contains Articles on Turbellarians on pp. 18-19, 32-35, 76-77, 89-92, 196-227. (Essentially in Russian, with several English sections.)

2002 (平成 14 年)

Agata, K. [Planarian regeneration]. In: Program of the Memorial Public Lecture of Science at the Occasion of a Semicentennial of the 'RIKEN Kôbe' which will be held in Kôbe, on July 8, 2002. http://www.riken.go.jp/r-world/event/2002/publicp/index.html By title only. (Jap.) 阿形清和. 切っても切ってもプラナリア…再生の不思議. 第 24 回理化学研究所 科学講演会. 発生・再生研究が切り拓く未来. 神戸研究所の開所を記念して. (神戸, 平成 14 年 7 月 8 日). プログラム (上記 URL). 標題だけ.

Agata, K. [Planarian regeneration]. Newton (Graphic Science Magazine), 22, (9): 135. An announcement of the Memorial Public Lecture of Science at the Occasion of a Semicentennial of the 'RIKEN Kôbe' on July 8, 2002. (Jap.) 阿形清和. 切っても切ってもプラナリア…再生の不思議. 「第 24 回理化学研究所 科学講演会のお知らせ」－「発生・再生研究が切り拓く世

界」（神戸，平成 14 年 7 月 8 日）の講演標題（+プラナリアの切断・再生写真）．ニュートン，22 巻，9 号，135 頁．

Agata, K. [A new evolutional thinking from the cytological viewpoint: Studies on planarians of the 21st Century (1)-(3)]. Sci. Jour. Kagaku, Tôkyô, 72: 164-168, 365-370, 481-484, front cover page (fig.) and 644-647. (Jap.) 阿形清和．細胞から見た新しき進化論 21 世紀のプラナリア研究 (1)；同 (2), (3)：プラナリアから見た脳の進化 (Part I, Part II)；意外な組合せ－進化と再生医療．科学，72 巻，2 号，164-168 頁；3 号，365-370 頁；4 号，481-484 頁；6 号，表紙（図）＋ 644-647 頁．

Agata, K. Stem cell system in planarians. Final Programme of the EURESCO Conferences: Cellular and Molecular Basis of Regeneration held at Castelvecchio Pascoli (near Pisa), Italy, on Aug. 31–Sept. 5, 2002, p. 3.

Agata, K. [Molecular and cytological study on the brain evolution and regeneration using planarians]. Title of his lecture as a Zoological Society Winner for 2002. Program of the 73rd Ann. Meet. of the Zool. Soc. of Japan held in Kanazawa, on September 24-27, 2002, p. 12. By title only. (Jap.) 阿形清和．「プラナリアを用いた脳の進化と再生に関する分子・細胞生物学的研究」．平成 14 年度日本動物学会賞 受賞者講演．日本動物学会第 73 回大会（金沢，平成 14 年 9 月 24-27 日）予稿集，12 頁．標題だけ．

Agata, K. [Japanese abstract of the Zoological Society Prize Winners for 2002. Agata, K.: Molecular and cytological studies on planarian regeneration]. Biol. Sci. News, No. 369: 18-23 (z-76~z-81). (Jap.) 阿形清和．日本動物学会賞 研究の内容 プラナリアを用いた脳の進化と再生に関する分子・細胞生物学的アプローチ．生物科学ニュース，369 号，18-23 頁．(z-76～z-81 頁)．

Agata, K. The Zoological Society Prize: Molecular and cellular approaches to planarian regeneration. Zool. Sci., 19: 1391-1392.

Anon. [Small aquatic animals observed under a stereomicroscope: Microturbellaria and Rotatoria (Rotifera – *Conochilus*)]. Awogaeru Tsûshin, Koshiya, (6): 2. (Jap.) 無記名．実体顕微鏡の生きものたち：ウズムシ・テマリワムシ．あおがえる通信，6 号，②頁．

Anon. [Newton Special: Animals observed by Darwin during the Voyage of H.M.S. Beagle]. Newton, Tôkyô, 22, (3): 24-51. (Jap.) 無記名．ニュートン スペシャル ビーグル号大航海記 ダーウィンの進化論を生んだ種の起源への旅．ニュートン，22 巻，3 号，24-51 頁．うち，'ダーウィンが航海で出会った生物たち (pp. 46-47)' に 'プラナリア' があげられている．Darwin (1844) は，この論文で，プラナリア類 15 種を記載・報告しているが，陸産種 (Tricladida, Terricola) と海産種 (Polycladida) を含む．一部の陸産種を除いて，再同定は困難である（川勝註）．

Arita, S. [Ko'gaibiru: A brown bipaliid planarian found in Ôtsu City]; [Additional note]. Newsletter of the LBM Field Reporters (The Lake Biwa Museum, Kusatsu), (5) (=22 in the consecutive no.): 4, 9. (Jap.) 有田重彦．コウガイビル；コウガイビル追記．琵琶湖博物館 フィールドレポーター 掲示板，5 号（通巻 22 号），4 頁，9 頁．

Asada, A, Kusakawa, T., Orii, H., Agata, K. & Watanabe, K. Planarian cytochrome b_{561}: Conservation of a six transmembrane structure and localization along the central and peripheral nervous system. Jour. Biochem., 131: 175-182.

Asami, M., Hatashi, T. & Agata, K. Culture and cellular characterization of planarian stem cell. Program of the 73rd Ann. Meet. of the Zool. Soc. of Japan held in Kanazawa, on September 24-27, 2002, p. 152. (Jap.) 浅見真紀・林 哲太郎・阿形清和．プラナリア幹細胞の培養及びその細胞特性について．日本動物学会第 73 回大会（金沢，平成 14 年 9 月 24-27 日）予稿集，152 頁．English abstract of this lecture is printed in Zool. Sci., 19: 1455.

Asami, M., Nakatsuka, T., Hayashi, T., Kou, K., Kagawa, H. & Agata, K. Cultivation and characterization of planarian neuronal cells isolated by fluorescence activated cell sorting (FACS). Zool. Sci., 19: 1257-1265.

Asato, R., Taira, K., Kudaka, J., Itokazu, K. & Nakamura, M. [Epidemiological survey of the rat lungworm, *Angiostrongylus cantonensis*, in Okinawa Prefecture, Japan－(1)]. An Aannual Report of the New and Past Infections in Okinawa Prefecture, 2001, pp. 9-25. Okinawa Prefectural Institute of Health Environment, Ôsato-son, Okinawa, Okinawa Prefecture, Japan. (Jap.) 安里龍二・平良勝也・久高 潤・糸数清正・中村正治．広東住血線虫の疫学的調査 (1)．沖縄県衛生環境研究所 平成 13 年度新興・再興感染症調査研究報告書，9-25 頁．広東住血線虫の中間宿主としての陸産三岐腸類の外国での記録に触れている（編者 註）．

Biodiversity Center of Japan / The Ministry of Environment, Japan. [Internet Colored Illustrations of Rare Wild Plants and Animals]. [Invertebrates Other than Shells, Snails and Insects]. [Kantô-ido-uzumushi *Phagocata papillifera* (Ijima et Kaburaki, 1916): CR+EN]. http://www.sizenken.biodic.go.jp/rdb/content/065.html Web article only. (Jap.) インターネット自然研究所 / 環境省．RDB 図鑑－希少な生きものたち．「その他の動物」8 種類のうち，第 1 番目はカントウイドウズムシ（絶滅危惧種 I 類）．インターネット版だけ．

Compilers' Note. A color photograph of *Phagocata papillifera* used in this web article was cited from KAWAKATSU-&-SASAKI's Website: http://planarian.net. The original photograph was taken by Mr. T. Miyazaki at Kawakatsu's request. The locality of the animal is a shallow well at Mr. Ishizuka's ground in

Mitsukaidô City, Ibaraki Pref., Honshû. Cf. Kawakatsu, Sugino, Oki, Tamura & Horikoshi, 1984. Bull. Fuji Women's College, (22), II: 79-104.

Cebrià, F., Kobayashi, C., Umesono, Y., Nakazawa, M., Mineta, K., Ikeo, K., Gojobori, T., Itoh, M., Taira, M., Sánchez, A. A. & Agata, K. FGFR-related gene nou-darake restricts brain tissues to the head region of planarians. Nature, 419: 620-624.

Cebrià, F., Kudome, T., Nakazawa, M., Mineta, K., Ikeo, T., Gojobori, T. & Agata, K. The expression of neural-specific genes reveals the structural and molecular complexity of the planarian central nervous system. Mechanisms of Development, 116: 199-204.

Cebrià, F., Nakazawa, M. Mineta, K., Ikeo, K., Gojobori, T. & Agata, K. Dissecting planarian central nervous system regeneraton by the expression of neural-specific genes. Dev. Growth Differ., 44: 135-146.

Gunji, S. [Platyhelminthes－Turbellaria]. In: Chiba-ken Shiryô-Kenkyû-Zaidan (ed.), "Chiba-ken no Shizenshi" (The Nature in Chiba Prefecture), pp. 180-186, 311. Mitsubishi-Denki Documentex, Chiba. (Jap.) 郡司節郎. 扁形動物門 Platyhelminthes. 千葉県史料研究財団 編, 千葉県の自然史 本編6 千葉県の動物1－陸と淡水の動物－, 180-186頁, 311頁. 三菱電機ドキュメンテックス, 千葉市.

Hooper, R. Animal Tracker 69: Flatworm. The Japan Times, Aug. 2 (Friday), 2002. *Dugesia japonica* is reported in this serial essay on nature.

Hori, I. & Kishida, Y. Quantitative changes of the nuclear pore during differentiation of the planarian regenerative cells. Program of the 73rd Ann. Meet. of the Zool. Soc. of Japan held in Kanazawa, on September 24-27, 2002, p. 151. (Jap.) 堀 功・岸田嘉一. プラナリアの再生細胞の分化に伴う核膜小孔の量的変化. 日本動物学会 第73回大会（金沢, 平成14年9月24-27日）予稿集, 151頁. English abstract of this lecture is printed in Zool. Sci., 19: 1454.

Hotta, Y. [A video tape: Planarira]. Mr. Hotta's private production (E-mail address: y-hotta@m1.interq.or.jp). 堀田康夫. ＜プラナリア＞ビデオテープ（VHS 27分）. 第43回科学技術映像祭 科学教育部門 文部科学大臣賞受賞作品.

Compilers' Note. Mr. Hotta's first video tape 'Planaria' (17 min.) was produced in 1993. This is the second revised and enlarged version (27 min.). The latter received a Prize of the Minister of the Ministry of Education, Science, Sports and Culture of Japan at the 43rd Science and Technological Cinema Festival (Science Education Section).

Hwang, J. S., Kobayashi, C., Agata, K., Ikeo, K. & Gojobori, I. Identification of caspase-like genes and their expressions during the regeneration of planarian. Final Programme of the EURESCO Conferences: Cellulara and Molecular Basis of Regeneration held at Castelvecchio Pascoli (near Pisa), Italy, on Aug. 31-Sept. 5, 2002, p. 66.

Inoue, T., Kumamoto, H., Cebrià, F., Kobayashi, C. & Agata, K. Role of late-expression genes for recovery of phototaxis behavior during planarian regeneration. Program of the 73rd Ann. Meet. of the Zool. Soc. of Japan held in Kanazawa, on September 24-27, 2002, p. 134. (Jap.) 井上 武・限元祐司・セブリア フランセスク・小林千余子・阿形清和. プラナリアの走光性に関与する1020_HHおよびeye53クローンの解析. 日本動物学会 第73回大会（金沢, 平成14年9月24-27日）予稿集, 134頁. English abstract of this lecture is printed in Zool. Sci., 19: 1500.

Ishibashi, T., Suehiro, K., Yoshida, W. & Ishida, S. Cloning and expression analysis of the fork head homologue from the marine planarian Polyclad. Program of the 73rd Ann. Meet. of the Zool. Soc. of Japan held in Kanazawa, on September 24-27, 2002, p. 93. (Jap.) 石橋 崇・末広一貴・吉田 渉・石田幸子. 海産プラナリア多岐腸類における fork head 相同遺伝子の単離および発現解析. 日本動物学会 第73回大会（金沢, 平成14年9月24-27日）予稿集, 93頁.

Ishida, S. & Yoshida, W. [Production of the Database for the biology education of development and regeneration: Marine (6 Polyclad species) and freshwater (14 species) planarians of Japan]. HIROIN (Hirosaki Daigaku Sôgô-Jôhô Center, Kôhô). No. 19: 45-50. http://133.60.236.158/movies/homepage-Info/T-T.html 石田幸子・吉田 渉. VODシステムによる動物の発生及び再生コンテンツと本邦産プラナリアのデータベースの作成. 弘前大学総合情報処理センター広報 HIROIN, 19号, 45-50頁.

Ishida, S. & Yoshida, W. [VOD Systems]. Normal development of Marine planarian (Polyclads); the regeneration of freshwater planarians (Triclads) / Planarian database: Freshwater planarians; marine planarians. For URL, see the foregoing article listed above. 石田幸子・吉田 渉. VODシステム・プラナリアのデータベース.

Ishida, S. & Yoshida, W., Katô, C., Nishitani, S. & Sakurai, T. Comparative research among the Japanese freshwater planarian *Bdellocephala* species. Program of the 73rd Ann. Meet. of the Zool. Soc. of Japan held in Kanazawa, on September 24-27, 2002, p. 163. 石田幸子・吉田 渉・加藤千裕・西谷信一郎・櫻井隆繁. 本邦産淡水棲プラナリア *Bdellocephala* 属に分類される種の比較検討. 日本動物学会第73回大会（金沢, 平成14年9月24-27日）予稿集, 163頁. English abstract

of this lecture is printed in Zool. Sci., 19: 1426.

Kameoka City (Kyôto Prefecture), Homepage. [Dr. Masaharu Kawakatsu]. http://www.city.kameoka.kyoto.jp/wkame/sekai/sekai3.html. Webpage only. (Jap.) 亀岡市（京都府）ホームページ．世界の KAMEOKA の人たち．オランダ 川勝正治 亀岡市旭町出身．ウェブページだけ．

Kawakatsu, M. Location and present condition of the samples of Japanese "Turbellarians" in Kawakatsu's Collection. A distribution material for the participants of the 2002 Meeting of the Taxonomic Association of Freshwater Animals (TAFA) held in Chiba (Nov. 16-17, 2002). Copies were also sent to absent member of the TAFA. It also contains 'A list of Papers on "Turbellarians" Published (and Planned) with Dr. Ronald Sluys (Zoölogisch Museum, Universitat van Amsterdam)(Oct. 13, 2002). Notice: This is not a publication. 川勝正治．日本産渦虫類（扁形動物門："渦虫綱"）の標本管理状況－主に三岐腸類の場合－．淡水動物分類研究会 2002 年度研究集会（千葉県立中央博物館，平成 14 年 11 月 16-17 日）の参加者への配布資料．Dr. R. Sluys（アムステルダム大学動物博物館）との 1995 年以降の共著論文目録を含む．（非出版物．）

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ARTICLE I. Kawakatsu, M., Takai, M. & Sasaki, G.-Y. A list of publications on Japanese Turbellarians (2001) … Including Titles of publications on foreign Turbellarians written by the Japanese authors …. Bull. Fuji Women's Univ., (40), II: 162-177. 和文標題：川勝正治・高井成幸・佐々木 玄祐．日本産渦虫類文献目録（2000）－外国産渦虫類に関する邦人著作を含む－．URL は次の通り．
http://planarian.net/db/lst/lst2002.pdf

ARTICLE II. Kawakatsu, M., Ogren, R. E., Froehlich, E. M. & Sasaki, G.-Y. Additions and corrections of the previous land planarian indices of the world (Turbellaria, Seriata, Tricladida, Terricola). Additions and corrections of the previous land planarian indices of the world-10. Bull. Fuji Women's Univ., (40), II: 162-177. 著者名・標題は英文表記だけ．URL は次の通り．
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Kobayashi, K., Arioka, S. & Hoshi, M. Seasonal changes in the sexualization of the planarian *Dugesia ryukyuensis*. Zool. Sci., 19: 1267-1278.

Kobayashi, K., Arioka, S. & Hoshi, M. Inbreeding of the "acquired sexuals" in the planarian *Dugesia ryukyuensis* produces both diploid and triploid offspring. Program of the 73rd Ann. Meet. of the Zool. Soc. of Japan held in Kanazawa, on September 24-27, 2002, p. 123. (Jap.) 小林和也・有岡幸子・星 元紀．プラナリアに由来する F1 世代の倍数性について．日本動物学会 第 73 回大会（金沢，平成 14 年 9 月 24-27 日）予稿集，123 頁．English abstract of this lecture is printed in Zool. Sci., 19: 1439.

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661-666.

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Compilers' Note. This is an English abstract. A short note based upon this abstract is printed in Peptide Science, 2002: 377-378 (published in 2003).

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ARTICLE II

ADDITIONS AND CORRECTIONS OF THE PREVIOUS LAND PLANARIAN INDICES OF THE WORLD (TURBELLARIA, SERIATA, TRICLADIDA, TERRICOLA)

ADDITIONS AND CORRECTIONS OF THE PREVIOUS LAND PLANARIAN INDICES OF THE WORLD – 11

By MASAHARU KAWAKATSU, EUDÓXIA MARIA FROEHLICH, HUGH D. JONES, ROBERT E. OGREN, and GEN-YU SASAKI

INTRODUCTION

The present publication is a continuation of our Land Planarian Indices Series. In the Part I, we give a taxonomic revision of the family Rhynchodemidae von Graff, 1896, and its two subfamilies, based upon the establishment of two new collective groups. Part II is an 'Additions and Corrections of the Previous Land Planarian Indices of the World –11'.

Abbreviations: BFC = Bulletin of Fuji Women's College, (Ser. II); BFU = Bulletin of Fuji Women's University, (Ser. II)(after 2002); OC = Occasional Publications, Biological Laboratory of Fuji Women's College, Sapporo (Hokkaidô), Japan; pdf = web article (pdf) is also available.

Note. KAWAKATSU-&-SASAKI's WEBPAGES ON PLANARIANS, SAPPORO AND TÔKYÔ (ISSN 1348 3412) is a Continuation from the Occ. Publ., Biol. Lab. Fuji Women's College, Sapporo (Hokkaidô), Japan: Nos. 1-34, for 1970-2000 (ISSN 0917-4362).

The pdf versions of the Land Planarian Indices Series (published after 2001) are in the public domain, available at: http://planarian.net.

We are indebted to Dr. Teiji Kifune (Fukuoka, Japan) for his expert advice on Greek and Latin grammatical problem.

PART I

REVISION OF THE LIST OF SPECIES IN THE FAMILY RHYNCHODEMIDAE PUBLISHED IN THE PREVIOUS GEOGRAPHIC LOCUS INDEX

Revision of the Family Rhynchodemidae

The taxonomic history of the family Rhynchodemidae von Graff, 1896, is described in a paper by Ogren & Kawakatsu (1988: 39-49). The family is classified into 2 subfamilies: Rhynchodeminae Corrêa, 1947 (5 genera) and Microplaninae Pantin, 1953 (7 genera). The definitions of the family, subfamilies and genera are given by Ogren & Kawakatsu (1988, 1989), who also list all species in each subfamily (1988: Rhynchodeminae; 1989: Microplaninae).

The geographic locus index of the Rhynchodemidae and its itemized list were published in a later article of the Land Planarian Indices Series (Ogren, Kawakatsu & Froehlich, 1997, p. 68, Table 2, p. 70, Table 4, pp. 73-75; see also pp. 83-96 and Appendix I on pp. 97-98; Errata, see Ogren, Kawakatsu & Froehlich, 1998; for taxonomic list of rhynchodemid taxa, see Ogren, Kawakatsu & Froehlich, 1993).

According to Ogren, Kawakatsu & Froehlich (1997: 68, Table 2) the Rhynchodemidae consists of 2 subfamilies, 12 genera, 206 species and 5 subspecies. Full anatomical and histological descriptions of the copulatory apparatus are available for 59% of the species (well-described species), (approximately 37% in the Rhynchodeminae and 83% in the Microplaninae). Thus 41% of the Rhynchodemidae species are known only by their external morphological characters.

This prevents appropriate progress in the taxonomic revision of the Rhynchodemidae. We propose the establishment of a collective group in both subfamilies Rhynchodeminae and Microplaninae. Uncertain species will be tentatively classified under each of these groups. Although being of no value for improving rhynchodemid taxonomy itself, in practice this procedure can be of help in immediately indicating species with unknown genital anatomy.

Implementation of this proposal requires the following taxonomic treatment.

1). Abolishment of the Subspecies Classification System.

In our previous classification system (Ogren & Kawakatsu, 1988; Ogren, Kawakatsu & Froehlich, 1997), the following subspecies classification system was employed.

Rhynchodemus hectori von Graff, 1897

- *R. h. hectori* von Graff, 1897, from Argentina and Brazil. Copulatory apparatus is known.
- *R. h. marfa* Marcus, 1953, from Zaire. Copulatory apparatus is known.

Rhynchodemus ochroleucus von Graff, 1899

- *R. o. ochroleucus* von Graff, 1899, from Indonesia (Natuna Is.) and the Philippines. Copulatory apparatus is known.
- *R. o. belli* von Graff, 1899, from Indonesia (Moluccas Is.). Genital anatomy is not known.
- *R. o. varians* von Graff, 1899, from Indonesia

(Java and Sumatra). Genital anatomy is not known.

The 5 subspecies mentioned above (including 2 nominotypical subspecies) should be elevated to the rank of species.

2). Proposal of 2 *nomina nova*

There are two groups of rhynchodemid species having the same specific names (Ogren & Kawakatsu, 1988; Ogren, Kawakatsu & Froehlich, 1997). They are as follows:

Rhynchodemus assimilis Geba, 1909, from Comoro Island.

Platydemus assimilis Wood, 1926, from Australia (NSW).

Rhynchodemus boehmigi von Graff, 1899, from Indonesia (Mollucas Is.).

Platydemus boehmigi Geba, 1909, from Comoro Island.

All of these 4 species were described based upon non-sexual specimens (i.e., their genital anatomy is not known). Thus, they should be classified into the same collective group proposed in the present paper (see the foregoing section). New names will be given for *Platydemus assimilis* and *Platydemus boehmigi* in Table I.

3). Synonymised species

We employed the following synonymic treatment in the present publication. See also Table I.

Dolichoplana feildeni von Graff, 1899, is synonymised with *Dolichoplana striata* Moseley, 1877. Cf. Ogren, Kawakatsu & Froehlich (1997: 81, *8 in Notes). See also Jones (1998).

Microplana britannica (Percival, 1925) [*olim Rhynchodemus*], *Microplana decennii* (Battalgazi, 1945) [*olim Rhynchodemus*], *Microplana hovassei* (de Beauchamp, 1934) [*olim Rhynchodemus*], and *Microplana monacensis* (Heinzel, 1929) [*olim Rhynchodemus*] have all been synonymised with *Microplana scharffi* (von Graff, 1896). Cf. Ogren, Kawakatsu & Froehlich (1997: 81, *16 – *21 in Notes). See also Jones (1998).

Microplana albicolis (von Graff, 1899) [*olim Rhynchodemus*], *Microplana atrocyanea* (Walton, 1912) [*olim Rhynchodemus*], *Microplana carli* (Fuhrmann, 1914) [*olim Rhynchodemus*], and *Microplana mahnerti* Minelli, 1977, *Microplana richardi* (Bendl, 1909) [*olim Rhynchodemus*], *Microplana styriaca* (Freisling, 1935) [*olim Rhynchodemus*] have all been synonymised with *Microplana terrestris* (Müller, 1774). Cf. Ogren, Kawakatsu & Froehlich (1997: 81, *15, *22 – the second *21 is a *lapsus calami*). See also Ogren (1988), Ogren & Kawakatsu (1998) and Jones (1998).

4). Additional species

Microplana nana Mateos, Giribet & Carranza, 1998, from Spain is the only rhynchodemid species (Microplaninae) described after the publication of our Locus Index (Ogren, Kawakatsu & Froehlich, 1997; cf. Kawakatsu, Ogren, Froehlich & Sasaki, 2001: 114). It is added in Table I of the present paper.

Note by HDJ. A paper describing a new species of *Othelosoma* from South Africa is "in press" (Jones, 2004). See Table I and References for Part I.

Definitions of the Family Rhynchodemidae, 2 Subfamilies and 14 Genera

The following definitions of the family, subfamilies and genera are reproduced from Ogren & Kawakatsu (1988, 1989) except for the two collective groups. We do not propose a comprehensive taxonomic revision of the Rhynchodemidae in the present paper.

Family Rhynchodemidae von Graff, 1896

Definition: Body elongate and cylindroid with 2 eyes near the simple, tapered anterior end; without tentacles or head plate; with well-developed creeping sole occupying part of the ventral surface. A sucker organ present at the anterior ventral surface (*Cotyloplana*).

Type genus: *Rhynchodemus* Leidy, 1851

Cf. Ogren & Kawakatsu (1988: 44, 50).

Subfamily Rhynchodeminae Corrêa, 1947

Definition: Rhynchodemidae with strong cortical musculature in which the subepithelial longitudinal muscle fibers are grouped into large, definite bundles; penis papilla absent or greatly reduced (*Platydemus* in part); female copulatory apparatus simple, consisting of antrum and genital duct without bursa or genito-intestinal connection.

Type genus: Rhynchodemus Leidy, 1851

Cf. Ogren & Kawakatsu (1988: 44, 50). See also Ogren Kawakatsu & Froehlich (1992: 99, pl. I, bottom-fig., 102-103, pl. IV (1-2), fig.).

Genus *Cotyloplana* Spencer, 1892

Definition: Rhynchodeminae, flattened body, with wide creeping sole; with a single sucker at the antero-ventral side in front of the creeping sole; copulatory organs similar to *Platydemus* with large, spacious male genital antrum having a small, obtuse, penis papilla at its base through which the ejaculatory duct empties; female organ simple, with narrow and curved glandular duct, dorsally situated and opening by way of a reduced vagina into the dorsal part of the common genital antrum; posterior diverticulum (or glandular sac) present.

Type species: *Cotyloplana whiteleggei* Spencer, 1892

Cf. Ogren & Kawakatsu (1988: 44, 51).

Genus *Digonopyla* Fischer, 1926

Definition: Rhynchodeminae with numerous pharynges and mouths; copulatory apparatus has a wall of tissue separating the gonopores, resulting in independent male and female openings; copulatory organs as in *Platydemus* with minute penis papilla and dorsal entrance of vagina.

Type species: *Dolichoplana harmeri* von Graff, 1899

Cf. Ogren & Kawakatsu (1988: 44, 53 54).

Genus *Dolichoplana* Moseley, 1877

Definition: Rhynchodeminae of very elongate flattened form; creeping sole of moderate width; the rounded, slightly concave anterior end is bordered by glandular and sensory tracts; with two large retinal eyes behind the anterior tip; parenchymal longitudinal muscle fibers occur only ventral to the intestine; male copulatory organ without penis papilla, genital antrum very large, elongate with many folds, opens into large elongated common antrum; the short female genital duct and vagina open dorsally into the common antrum; a prominent diverticulum (or glandular sac) opens from the posterior wall of common antrum near the gonopore.

Type species: *Dolichoplana striata* Moseley, 1877

Cf. Ogren & Kawakatsu (1988: 44, 54).

Genus *Platydemus* von Graff, 1896

Definition: Rhynchodeminae of massive, plano-convex body, both ends tapered, with broad creeping sole; with very large eyes; anterior secretory and sensory tracts; male copulatory organ consists of a large chamber with folded epithelium and in most cases a short penis papilla; vagina opens from the dorsal aspect into the large common genital antrum; ventrally, a diverticulum (or glandular sac) opens from the posterior wall of the common antrum.

Type species: *Rhynchodemus grandis* Spencer, 1892

Cf. Ogren & Kawakatsu (1988: 44-45, 61).

Genus *Rhynchodemus* Leidy, 1851

Definition: Rhynchodeminae with elongate body attenuated at both ends, with oval to round cross section; creeping sole occupying most of the ventral surface; anterior end has sensory tracts and a pair of medium to large eyes situated close to anterior tip; male copulatory apparatus lacks a penis papilla, but develops large folds in the genital antrum.

Type species: *Planaria sylvatica* Leidy, 1851

Cf. Ogren & Kawakatsu (1988: 45-46, 67).

Anisorhynchodemus Kawakatsu, Froehlich, Jones, Ogren & Sasaki, gen. nov. (collective group)

Definition: Rhynchodeminae, but not classifiable into present taxonomic genera because of insufficient morphological information; geographical distribution is worldwide. A collective group to temporarily assign *species inquirendae* and *nomina dubia*.

No type species. Cf. ICZN, 4th Ed., 1999, Art. 42.3.1.

Etymology: The new generic name of *Anisorhynchodemus* is from Greek. Aniso (unequal, different, irregular, dissimilar) + *rhynchodemus*. Gender is the same as *Rhynchodemus* (masculine).

Subfamily Microplaninae Pantin, 1953

Definition: Rhynchodemidae of generally short, plump, cylindrical form, anterior end often blunt; eyes often small or may be retrogressed; body wall with weak subepithelial musculature consisting of thin outer circular layer and single layer of longitudinal fibers inconspicuously developed and not aggregated into large bundles; male copulatory organ often complicated with well developed penis papilla; female copulatory organ simple or complex, may have genito-intestinal connection, with or without seminal bursa with one or more exits.

Type genus: *Microplana* Vejdovský, 1890

Cf. Ogren & Kawakatsu (1988: 46); Ogren & Kawakatsu (1989: 53). See also Ogren, Kawakatsu & Froehlich (1992: 100, pl. II, top fig., 102 103, pl. IV (1 2), fig.).

Genus *Amblyplana* von Graff, 1896

Definition: Microplaninae with plump, rounded body, two well-developed retinal eyes on the subcylindrical head; with narrow creeping sole; with well developed bundle of parenchymal musculature and retractor muscle at anterior end of the body which pulls the front inwards.

Type species: *Rhynchodemus fuscus* Moseley,

1877

Cf. Ogren & Kawakatsu (1988: 46); Ogren & Kawakatsu (1989: 53).

Genus *Diporodemus* Hyman, 1938

Definition: Microplaninae with large seminal bursa connected to the vagina by a canal (Beauchamp's canal) and also opening asymmetrically to the exterior by a bursal canal and pore situated behind the common gonopore; with or without a genito-intestinal connection.

Type species: *Diporodemus yucatani* Hyman, 1938

Cf. Ogren & Kawakatsu (1988: 47); Ogren & Kawakatsu (1989: 56-57).

Genus *Geobenazzia* Minelli, 1974

Definition: Microplaninae with a conspicuous adenodactyl in the common genital antrum; male copulatory organ well developed, with large seminal vesicle and penis papilla; female organ has a copulatory bursa (or seminal receptacle) connected by one duct, the vagina, which opens into the genital antrum; also opening into the genital antrum near the vagina is a genito-intestinal duct which apparently does not communicate with the copulatory bursa.

Type species: *Geobenazzia tyrrhenica* Minelli, 1974

Cf. Ogren & Kawakatsu (1988: 47); Ogren & Kawakatsu (1989: 58).

Genus *Incapora* du Bois-Reymond Marcus, 1953

Definition: Microplaninae with two ventral orifices in the skin, from which tubes lead to the posterior limbs of the gut; these limbs form a transanastomosis connected to the common ovovitelline duct by the bursal canal.

Type species: *Incapora weyrauchi* du Bois-Reymond Marcus, 1953

Cf. Ogren & Kawakatsu (1988: 47); Ogren & Kawakatsu (1989: 59).

Genus *Microplana* Vejdovský, 1890

Definition: Microplaninae with an elongate, rounded body (preserved worms may have rounded anterior with greatest diameter anterior to mouth); with two small eyes; male copulatory organ consists of well-developed penis with muscular bulbus, bulbar cavity and elongate penis papilla projecting into short antrum; female organ has one simple canal (vagina) entering common genital antrum; typically a genito-intestinal canal is present arising from vagina or behind the common ovovitelline duct; seminal bursa can be present with a short connection (bursasteles, bursal canal, or proximal duct) to female tract, with or without connections to intestine, or bursa is blind lacking connections to intestine; when bursa is absent a genito-intestinal connection is often present; without adenodactyls, tentacles or suckers.

Type species: *Microplana humicola* Vejdovský, 1890

Cf. Ogren & Kawakatsu (1988: 47); Ogren & Kawakatsu (1989: 60).

Genus *Othelosoma* Gray, 1869

Definition: Microplaninae with rounded, elongated body, anterior may be blunt or inrolled; narrow creeping sole reaches nearly to anterior tip; seminal bursa very large and communicates by two openings or by a common opening with two canals, a ductus vaginalis and a Beauchamp's canal, leading into the genital antrum; dorso-anterior parenchymal musculature is very highly developed and may be differentiated as a discrete retractor muscle.

Type species: *Othelosoma symondsii* Gray, 1869

Cf. Ogren & Kawakatsu (1988: 47); Ogren & Kawakatsu (1989: 79).

Genus *Pseudartiocotylus* Ikeda, 1911

Definition (in von Graff, 1916: 3230): "Der riemenförmige Körper ist relativ kurz, besitzt ein zwischen den kleinen Augen liegendes uhrglasförmiges apikales Sinnesorgan und zwei neben dem Vorderende der schmalen Kriechleiste angebrachte längsovale Ambulakralgrübchen." Insufficient information in the original description does not allow for a suitable definition.

Type species: *Pseudartiocotylus ceylonicus* Ikeda, 1911

Cf. Ogren & Kawakatsu (1988: 48); Ogren & Kawakatsu (1989: 87).

Statomicroplana Kawakatsu, Froehlich, Jones, Ogren & Sasaki, gen. nov. (collective group)

Definition: Microplaninae, but not classifiable into present taxonomic genera because of insufficient morphological information; geographic distribution is worldwide. A collective group to temporarily assign *species inquirendae* and *nomina dubia*.

No type species. Cf. ICZN, 4th Ed., 1999, Art. 42.3.1.

Etymology: The new generic name of *Statomicroplana* is from Greek. Stato (stillness, rest, standstill, suspend) + microplana. Gender is the same as *Microplana* (feminine).

Table 1. A list of rhynchodemid species with information on copulatory organs and geographical location. (+ indicates adequate information is available on the copulatory organs; – indicates no such information.)

Family RHYNCHODEMIDAE von Graff, 1896

Subfamily RHYNCHODEMINAE Corrêa, 1947

Genus *COTYLOPLANA* Spencer, 1892

Cotyloplana borneensis de Beauchamp, 1933	+ E. Malaysia
Cotyloplana punctata Spencer, 1892	+ Australia · Lord Howe Is.

Genus *DIGONOPYLA* Fischer, 1926

Digonopyla harmeri (von Graff, 1899)	+ Indonesia · Sulawesi

Genus *DOLICHOPLANA* Moseley, 1877

Dolichoplana carvalhoi Corrêa, 1947	+ Brazil
Dolichoplana striata Moseley, 1877*1	+ Indonesia · Java and Moluccas Is., Singapore; Sri Lanka; Philippines; Palau Is, U.S.A. (GA, FL, MO; greenhouses); Barbados; Bermuda; Guiana; Europe: Ireland; U.K.
	*1 *Dolichoplana feildeni* is synonymised with *D. striata*.
Dolichoplana vircata du Bois-Reymond Marcus, 1957	+ Peru

Genus *PLATYDEMUS* von Graff, 1896

Platydemus bivittatus (von Graff, 1899)	+ Papua New Guinea
Platydemus fasciatus (Spencer, 1892)	+ Australia · Lord Howe Is.
Platydemus grandis (Spencer, 1892)	+ Australia · Lord Howe Is.
Platydemus joliveti de Beauchamp, 1972	+ Papua New Guinea
Platydemus lividus (von Graff, 1899)	+ Caroline Is.; Palau Is.
Platydemus longibulbus de Beauchamp, 1972	+ Papua New Guinea
Platydemus macrophthalmus (von Graff, 1899)	+ Papua New Guinea
Platydemus manokwari de Beauchamp, 1962	+ Indonesia, Irian Jaya; Maldive; Philippines; Japan (SWI and Ogasawara Is.); Australia (QLD)
Platydemus pindaudei de Beauchamp, 1972	+ Papua New Guinea
Platydemus vanheurni de Beauchamp, 1929	+ Indonesia · Irian Jaya
Platydemus victoriae (Dendy, 1890)	+ Australia (VIC)
Platydemus zimmermanni de Beauchamp, 1952	+ Fiji

Genus *RHYNCHODEMUS* Leidy, 1851

Rhynchodemus americanus Hyman, 1943	+ U.S.A. (green houses)
Rhynchodemus angustus (Hyman, 1941)	+ Panama
Rhynchodemus aripensis Prudhoe, 1949	+ Trinidad & Tobago
Rhynchodemus blainvillei von Graff, 1899	+ Brazil
Rhynchodemus bromelicola de Beauchamp, 1912	+ Costa Rica
Rhynchodemus graetzi du Bois-Reymond Marcus, 1953	+ Panama
Rhynchodemus hectori von Graff, 1897	+ Argentina ; Brazil
Rhynchodemus ijimai Kaburaki, 1922	+ Japan (CJ)
Rhynchodemus inopinatus (de Beauchamp, 1930)	+ Indonesia · Sumatra
Rhynchodemus marfa Marcus, 1953	+ Zaire
Rhynchodemus misus du Bois Reymond Marcus, 1965	+ Ecuador

Rhynchodemus nematopsis (de Beauchamp, 1930) + Indonesia · Java
Rhynchodemus oahuensis Hyman, 1939 + Hawaii, U.S.A.
Rhynchodemus ochroleucus von Graff, 1899 + Indonesia · Natuna Is.; Philippines
Rhynchodemus piptus Marcus, 1952 + Brazil
Rhynchodemus samperi Fuhrmann, 1814 + Colombia
Rhynchodemus schmardai von Graff, 1899 + Indonesia · Java
Rhynchodemus schubarti du Bois-Raymond Marcus, 1955 + Brazil
Rhynchodemus scius du Bois-Reymond Marcus, 1955 + Brazil
Rhynchodemus sumbawaeiensis (Haslauer-Gamisch, 1982) + Indonesia · Flores
Rhynchodemus sylvaticus (Leidy, 1851) + Europe: Austria; Belgium; Czechoslovakia; Germany; Ireland; Netherlands; Poland; U.K.; Canada (Ontario); U.S.A. (IL, LA, MD, MO, NC, NY, OH, PA, RI, TX, WI); Bermuda
Rhynchodemus vejdovskyi von Graff, 1899 + Indonesia · Java; Singapore

Genus *ANISORHYNCHODEMUS* Kawakatsu, Froehlich, Jones, Ogren & Sasaki, gen. nov.
(collective group)

Anisorhynchodemus albicinctus (von Graff, 1899) comb. nov. – Palau Is.
Anisorhynchodemus amboinensis (von Graff, 1899) comb. nov. – Indonesia · Moluccas Is.
Anisorhynchodemus assimilis (Geba, 1909)comb. nov. – Comoro Is.
Anisorhynchodemus belli (von Graff, 1899) comb. nov. – Indonesia · Moluccas Is.
Anisorhynchodemus bistriatus (Grube, 1868) comb. nov. – Fiji; Samoa Is.
Anisorhynchodemus boehmigi (von Graff, 1899) comb. nov. – Indonesia · Moluccas Is.
Anisorhynchodemus boholicus (von Graff, 1899)comb. nov. – Philippines
Anisorhynchodemus borellii (von Graff, 1894) comb. nov. – Paraguay
Anisorhynchodemus bosci (von Graff, 1899) comb. nov. – Madagascar
Anisorhynchodemus cameliae (Fuhrmann, 1914) comb. nov. – Colombia
Anisorhynchodemus chuni (von Graff, 1899) comb. nov. – Indonesia · Java
Anisorhynchodemus conradti (von Graff, 1899) comb. nov. – Togo
Anisorhynchodemus conspersus (von Graff, 1899) comb. nov. – Philippines
Anisorhynchodemus cultratus (von Graff, 1899) comb. nov. – Philippines
Anisorhynchodemus demani (von Graff, 1899) comb. nov. – Indonesia · Sulawesi
Anisorhynchodemus diesingi (von Graff, 1899) comb. nov. – Indonesia · Sulawesi
Anisorhynchodemus diorchis (Fuhrmann, 1914)comb. nov. – Switzerland
Anisorhynchodemus dubius (Spencer, 1892) comb. nov. – Australia · Lord Howe Is.
Anisorhynchodemus dugesi (von Graff, 1899) comb. nov. – Indonesia · Sulawesi
Anisorhynchodemus excavatus (von Graff, 1899) comb. nov. – Indonesia · Banda Is.
Anisorhynchodemus figdori (von Graff, 1899) comb. nov. – Indonesia · Java
Anisorhynchodemus fletcheri (Spencer, 1892) comb. nov. – Australia · Lord Howe Is.
Anisorhynchodemus forrestianus (Schröder, 1924) comb. nov. – New Caledonia
Anisorhynchodemus gebaboehmigi Kawakatsu, Froehlich, Jones, Ogren & Sasaki, nom. nov. – Comoro Is.
Anisorhynchodemus guttatus (Fletcher & Hamilton, 1888) comb. nov. – Australia (NSW, VIC)
Anisorhynchodemus hallezi (von Graff, 1899) comb. nov. – Philippines; U.K. (hothouses)
Anisorhynchodemus insularis (von Graff, 1899) comb. nov. – Palau Is.
Anisorhynchodemus joubini (Hallez, 1894) comb. nov. – Guiana
Anisorhynchodemus kraepelini (von Graff, 1899) comb. nov. – Fiji
Anisorhynchodemus laterolineatus (Spencer, 1892) comb. nov. – Australia · Lord Howe Is.
Anisorhynchodemus leidyi (von Graff, 1899) comb. nov. – Indonesia · Sulawesi
Anisorhynchodemus lindsaysianus (Schröder, 1924) comb. nov. – New Caledonia
Anisorhynchodemus lineolatus (von Graff, 1899) comb. nov. – Fiji
Anisorhynchodemus lubbocki (von Graff, 1899) comb. nov. – Indonesia · Sulawesi
Anisorhynchodemus luteicollis (von Graff, 1899) comb. nov. – Papua New Guinea

Anisorhynchodemus maculatus (Fuhrmann, 1914) comb. nov. – Colombia
Anisorhynchodemus mediolineatus (Spencer, 1892) comb. nov. – Australia · Lord Howe Is.
Anisorhynchodemus megalophthalma (Loman, 1890) comb. nov. – Indonesia · Java
Anisorhynchodemus mertoni (Schröder, 1916) comb. nov. – Indonesia · Aru Is.
Anisorhynchodemus michaelseni (von Graff, 1899) comb. nov. – Madagascar
Anisorhynchodemus miniatus (von Graff, 1899) comb. nov. – Palau Is.
Anisorhynchodemus mitchellianus (Schröder, 1924) comb. nov. – New Caledonia
Anisorhynchodemus montanus (Mell, 1904) comb. nov. – Ethiopia
Anisorhynchodemus moseleyi (Fletcher & Hamilton, 1888) comb. nov. – Australia (NSW)
Anisorhynchodemus nematoides (Loman, 1890) comb. nov. – Indonesia · Kai Is., · Java; W. Malaysia; Maldive ; Sri Lanka
Anisorhynchodemus nietneri (Humbert, 1862) comb. nov. – Sri Lanka
Anisorhynchodemus niger (Fletcher & Hamilton, 1888) comb. nov. – Australia (NSW)
Anisorhynchodemus nolli (von Graff, 1899) comb. nov. – Philippines
Anisorhynchodemus obscurus (Fletcher & Hamilton, 1888) comb. nov. – Australia (NSW, QLD)
Anisorhynchodemus pellucidus (von Graff, 1899) comb. nov. – Brazil
Anisorhynchodemus picta (von Graff, 1899) comb. nov. – Madagascar
Anisorhynchodemus pilleata (Whitehouse, 1915) comb. nov. – India
Anisorhynchodemus procera (von Graff, 1899) comb. nov. – Indonesia · Kai Is. & Moluccas Is.; Palau Is.
Anisorhynchodemus putzei (von Graff, 1899) comb. nov. – Maldive ; Australia (QLD)
Anisorhynchodemus quadristriatus (Grube, 1868) comb. nov. – Samoa Is.; Tonga
Anisorhynchodemus rubrocinctus (von Graff, 1899) comb. nov. – Indonesia · Sulawesi
Anisorhynchodemus scriptus (Steel, 1897) comb. nov. – Fiji
Anisorhynchodemus septemstriatus (von Graff, 1899) comb. nov. – Palau Is.
Anisorhynchodemus sharpi (von Graff, 1899) comb. nov. – Indonesia Sulawesi
Anisorhynchodemus signata (von Graff, 1899) comb. nov. – Indonesia · Moluccas Is.
Anisorhynchodemus simulans (Dendy, 1891) comb. nov. – Australia (VIC)
Anisorhynchodemus stenopus (von Graff, 1894) comb. nov. – Argentina; Venezuela
Anisorhynchodemus tabatteldili (von Graff, 1899) comb. nov. – Palau Is.
Anisorhynchodemus tetracelis (Haslauer-Gamisch, 1981) comb. nov. – Indonesia · Flores Is.
Anisorhynchodemus trilineatus (Fletcher & Hamilton, 1888) comb. nov. – Australia (NSW)
Anisorhynchodemus tristis (von Graff, 1899) comb. nov. – Indonesia · Moluccas Is.
Anisorhynchodemus varians (von Graff, 1899) comb. nov. – Indonesia · Java & Sumatra
Anisorhynchodemus waburtonianus (Schröder, 1924) comb. nov. – Loyalty Is.
Anisorhynchodemus whiteleggei (Spencer, 1892) comb. nov. – Australia · Lord Howe Is.
Anisorhynchodemus woodassimilis Kawakatsu, Froehlich, Jones, Ogren & Sasaki, nom. nov. – Australia (NSW)

Subfamily MICROPLANINAE Pantin, 1953

Genus *AMBLYPLANA* von Graff, 1896

Amblyplana braueri (von Graff, 1899) + Seychelle

Genus *DIPORODEMUS* Hyman, 1938

Diporodemus hymanae E. M. Froehlich & Froehlich, 1972 + Brazil
Diporodemus indigenus Hyman, 1943 + U.S.A. (DC, IL?, IN?, KY, LA, MD, MI, NC, NY, TN, VA, WV)

Diporodemus plenus Hyman, 1941 + Panama
Diporodemus yucatani Hyman, 1938 + Mexico

Genus *GEOBENAZZIA* Minelli, 1974

Geobenazzia tyrrhenica Minelli, 1974 + Italy

Genus *INCAPORA* du Bois-Reymond Marcus, 1953

Incapora anamallensis (de Beauchamp, 1930) + India
Incapora weyrauchi du Bois-Reymond Marcus, 1953 + Peru

Genus *MICROPLANA* Vejdovský, 1890

Microplana aberana (Mell, 1904) + Ethiopia
Microplana atropurpurea (von Graff, 1899) + Palau Is.
Microplana attemsi (Bendl, 1909) + Yugoslavia
Microplana ceylonica (von Graff, 1899) + India; Sri Lanka; Rodrigues Is., Mauritius
Microplana cherangani (de Beauchamp, 1936) + Ethiopia
Microplana costaricensis (de Beauchamp, 1913) + Costa Rica
Microplana giustii Minelli, 1976 + Italy
Microplana graffi (Geba, 1909) + Comores
Microplana haitiensis (Prudhoe, 1949) + Haiti, W. Indies
Microplana harea Marcus, 1953 + Congo; Zaire
Microplana henrici (Bendl, 1908) + France
Microplana howesi (Scharff, 1900) + France
Microplana humicola Vejdovský, 1890 + Czechoslovakia; U.K.
Microplana indica (Chaurasia, 1985) + India
Microplana mediostriata (Geba, 1909) + Comoro Is.
Microplana montoyai (Fuhrmann, 1914) + Colombia
Microplana nana Mateos, Giribet & Carranza. 1998 + Spain
Microplana natalensis (Jameson, 1907) + S. Africa
Microplana neumanni (Mell, 1904) + Ethiopia
Microplana peneckei (Meixner, 1921) + Austria
Microplana perereca Marcus & du Bois-Reymond Marcus, 1959 + Azores Is.
Microplana purpurea (Bendl, 1908) + Ethiopia
Microplana rufocephalata Hyman, 1954 + U.S.A. (KY)
Microplana scharffi (von Graff, 1896) *2 + Europe: Belgium; Bulgaria; Ireland; U.K.; Monaco; Turkey; Madeira Is.; U.S.A. (WA)

*2 *Microplana britannica, Microplana decennii, Microplana hovassei,* and *Microplana monacensis* have all been synonymised with *M. scharffi.*

Microplana termitophaga Jones, Darlington & Newson, 1990 + Kenya; Zambia; Zimbabwe
Microplana terrestris (Müller, 1774) *3 + Europe: Austria; Belgium; Bulgaria; Czechoslovakia; Denmark; France; Germany; Ireland; Monaco; Netherlands; Norway; Poland; Spain; Sweden; Switzerland; Yugoslavia; U.K.; Madeira; U.S.A. (AR, IL, KY, MD MD, MO, NY, OH, PA, C, TN, VA, WA, WI)

*3 *Microplana albicollis, M. atrocyanea, M. carli, M. mahnerti, M. richardi and M. styriaca* have all been synonymised with *M. terrestris.*

Microplana thwaitesii (Moseley, 1875) + Sri Lanka
Microplana trifuscolineata (Kaburaki, 1920) + Mauritius
Microplana tristriata (Geba, 1909) + Comoro Is.
Microplana uniductus (de Beauchamp, 1930) + India
Microplana unilineata (Frieb, 1923) + Korea
Microplana viridis (Jameson, 1907) + S. Africa

Microplana voeltzkowi (von Graff, 1899) + Madagascar
Microplana yaravi du Bois-Reymond Marcus, 1957 + Peru

Genus *OTHELOSOMA* Gray, 1869

Othelosoma africanum (von Graff, 1899) + S. Africa
Othelosoma angolense (de Beauchamp, 1951) + Angola
Othelosoma caffrum (Jameson, 1907) + S. Africa
Othelosoma chinum Marcus, 1955 + S. Africa
Othelosoma conyum Marcus, 1953 + Congo
Othelosoma cylindricum (de Beauchamp, 1913) + Kenya
Othelosoma evelinae Marcus, 1970 + S. Africa
Othelosoma flavescens (Jameson, 1907) + S. Africa
Othelosoma gnaum Marcus, 1955 + S. Africa
Othelosoma gravelyi (de Beauchamp, 1930) + India
Othelosoma hepaticarum (Jameson, 1907) + S. Africa
Othelosoma hirudineum (de Beauchamp, 1930) + India
Othelosoma huntum Marcus, 1955 + S. Africa
Othelosoma joburgi Jones, in press *4 + S. Africa
*4 This new species name may be disclaimed. Cf. ICZN, 4th Ed., 1999, Art. 8.3.
Othelosoma kukkal (de Beauchamp, 1930) + India
Othelosoma macrothylax (de Beauchamp, 1936) + Ethiopia
Othelosoma marcusi de Beauchamp, 1956 + Angola
Othelosoma marlieri de Beauchamp, 1956 + Zaire
Othelosoma musculosum (de Beauchamp, 1930) + India
Othelosoma nigrescens (Mell, 1904) + Ethiopia
Othelosoma notabile (von Graff, 1899) + Cameroon
Othelosoma polecatum Marcus, 1953 + Congo
Othelosoma pugum Marcus, 1953 + Zaire
Othelosoma retractile (de Beauchamp, 1930) + S. India
Othelosoma rudebecki Marcus, 1955 + S. Africa
Othelosoma saegeri Marcus, 1955 + Zaire
Othelosoma sholanum (de Beauchamp, 1930) + India
Othelosoma speciosum (von Graff, 1896) + S. Africa
Othelosoma symondsii Gray, 1869 + Gabon
Othelosoma torquatum (de Beauchamp, 1930) + India
Othelosoma voleum Marcus, 1953 + Tanzania
Othelosoma wauzen Marcus, 1955 + S. Africa

Genus *PSEUDARTIOCOTYLUS* Ikeda, 1911

Pseudartiocotylus ceylonicus Ikeda, 1911 + Sri Lanka

Genus *STATOMICROPLANA* Kawakatsu, Froehlich, Jones, Ogren & Sasaki, gen. nov. (collective group)

Statomicroplana capensis (von Graff, 1899) comb. nov. – S. Africa
Statomicroplana cockerelli (von Graff, 1899) comb. nov. – Jamaica, W. Indies
Statomicroplana ehrenbergi (von Graff, 1899) comb. nov. – Cameroon
Statomicroplana flavum (Moseley, 1877) comb. nov. – S. Africa
Statomicroplana fuliginea (von Graff, 1899) comb. nov. – Madagascar
Statomicroplana fuscum (Moseley, 1877) comb. nov. – S. Africa
Statomicroplana gebavoeltzkowi (Ogren & Kawakatsu, 1988) comb. nov. – Comoros
Statomicroplana haeckeli (von Graff, 1899)comb. nov. – Sri Lanka

Statomicroplana knysnensis (von Graff, 1899) comb. nov. – S. Africa
Statomicroplana kuekenthali (Mell, 1903) comb. nov. – Madagascar
Statomicroplana pyrenaica (von Graff, 1893) comb. nov. – France
Statomicroplana ruteocephala (Kaburaki, 1922)comb. nov. – Japan (CJ)
Statomicroplana teres (von Graff, 1899) comb. nov. – Sri Lanka
Statomicroplana tetracladea (Wilczyński, 1923) comb. nov. – Tanzania
Statomicroplana zenkeri (von Graff, 1899) comb. nov. – Cameroon

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The summarized data on the Rhynchodemidae (Rhynchodeminae and Microplaninae) proposed in the present article are shown in Table 2.

Table 2. A summary list of the family Rhynchodemidae. (Figures in parentheses are percentages of the relevant total.)

Family, subfamilies & genera	No. of species described	Sexual specimens (FCA reported)	Asexual specimens (FCA unknown)
RHYNCHODEMIDAE			
Rhynchodeminae			
Cotyloplana	2	2	0
Dygonopyla	1	1	0
Dolichoplana	3	3	0
Platydemus	12	12	0
Rhynchodemus	22	22	0
Anisorhynchodemus	70	0	70
Total	110	40 (36.4%)	70 (63.6%)
Microplaninae			
Amblyplana	1	1	0
Diporodemus	4	4	0
Geobenazzia	1	1	0
Incapora	2	2	0
Microplana	34	34	0
Othelosoma	32	32	0
Pseudartiocotylus	1	1	0
Statomicroplana	15	0	15
Total	90	75 (83.3%)	15 (17.6%)
Sum total	200	115 (57.5%)	85 (42.5%)

REFERENCES FOR PART I

References for Table 1 are not listed here.

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PART II

ADDITIONS AND CORRECTIONS OF THE PREVIOUS LAND PLANARIAN INDICES OF THE WORLD - 11

A. BIPALIIDAE INDEX (1987: Bull. Fuji Women's College, No. 25, Ser. II, pp. 79-119; 1988: Occ. Publ., Biol. Lab. Fuji Women's College, No. 19, pp. 1-16; 1992: Bull. Fuji Women's College, No. 30, Ser. II, pp. 62-75; 1993: *Ibid.*, No. 31, Ser. II, pp. 80-81; 1994: *Ibid.*, No. 32, Ser. II, pp. 73-76; 1995: *Ibid.*, No. 33, Ser. II, pp. 78-81; 1996: *Ibid.*, No. 34, Ser. II, pp. 87-93; 1991: *Ibid.*, No. 35, Ser. II, p. 56; 1998: *Ibid.*, No. 36, Ser. II, pp. 75-76; 1999: *Ibid.*, No. 37, Ser. II, 94, 97, 99-101; 2000: *Ibid.*, No. 38, Ser. II, 83-85; 2002: Bull. Fuji Women's Univ., No. 40, Ser. II, pp. 165-166).

BFC25. pp. 91-93. *Bipalium kewense* Moseley, 1878. Add the following items.

Bipalium kewense: Bandier, 1936: 316, 322.

Bipalium kewense: Silveira, 1998: 191, 194-195, fig. 10 (electrophotomicrograph). Brazil.

Bipalium kewense: Košel, 2001: 79. Czech and Slovakia.

Bipalium kewense: Košel, 2002: 38. Slovakia.

Kewense Moseley [watari-kôgai-biru]: Asato, Taira, Kudaka, Nakamura & Itokazu, 2003: 10-14. Okinawa / Japan.

Bipalium kewense: Tanaka, 2003: 138. Okinawa / Japan.

Bipalium kewense: Yamamoto. 2003a: 63-64, 67, figs. 1-2 (DB, VB), 69, figs. 1-2 (chromosomes), 70 (idiograms). Nagasaki Pref., Kyûshû / Japan.

Bipalium kewense: Yamamoto, 2003b: 63, fig. 4 (DB, VB). Nagayo-chô, Nagasaki Pref., Kyûshû / Japan.

BFC25. P. 97. *Bipalium nobile* Kawakatsu & Makino, 1982. Add the following items.

Bipalium nobile: Shirasawa, Yoshihama, Seo & Furuta, 2002: 1437. Tôkyô / Japan.

[Kogai-biru]: Poster of Otaru Museum for the 55th Special Exhibition and Otaru City Home-page, 2003: Backside of the Poster and p. 2 in the Home-page (with a photograph of a living specimen of *Bipalium nobile*). Otaru, Hokkaidô / Japan.

Bipalium nobile: Yamamoto, 2003a: 64, 67, figs. 4-5 (DB, VB). 69, fig. 3 (chromosomes), 70 (idiogram). Nagasaki Pref., Kyûshû / Japan.

BFC25. Pp. 96-97. (Under *Bipalium*). *Diversibipalium multilineatum* (Makino & Shirasawa, 1983). Add the following items.

Diversibipalium multilineatum: Yamamoto, 2003a: 64, 67. figs. 6-8 (DB, VB), 69, fig. 4 (chromosomes). 70 (idiograms). Nagasaki Pref., Kyûshû / Japan.

Diversibipalium multilineatum: Yamamoto, 2003b: 63, fig. 5 (DB, VB). Nagayo-chô, Nagasaki

Pref., Kyûshû / Japan.

UNDESCRIBED BIPALIID SPECIES (1987: BFC25, pp. 107-109; 1992: BFC30, pp. 73-75; 1993: BFC31, p. 81; 1994: BFC32, pp. 75-76; 1995: BFC33, pp. 80-81; 1996: BFC34, pp. 88-89; 1997: BFC35, p. 56; BFC37, p. 97; 2000: BFC38, pp. 84-85; 2002: Bull. Fuji Women's Univ., No. 40, Ser. II, p. 166).

BFC39. P. 113. (Under *Bipalium*). *Diversibipalium* sp. Nagasaki-1. Kawakatsu & al., 2000. Add the following item.

Diversibipalium sp. Nagasaki-1: Yamamoto. 2003a: 64, 68, figs. 9-10 (DB, VB), 699 fig. 5 (chromosomes), 70 (idiogram). Nagasaki Pref., Kyûshû / Japan.

BFC39. P. 113. (Under *Bipalium*). *Diversibipalium* sp. Nagasaki-2. Kawakatsu & al., 2000. Add the following item.

Diversibipalium sp. Nagasaki-2: Yamamoto, 2003a: 64, 68, figs. 11-12 (DB, VB), 69, fig. 6 (chromosomes), 70 (idiogram). Nagasaki Pref., Kyûshû / Japan.

BFC39. P. 113. (Under *Bipalium*). *Diversibipalium* sp. Nagasaki-3. Kawakatsu & al., 2000. Add the following item.

Diversibipalium sp. Nagasaki-3: Yamamoto, 2003a: 64-65, 68, figs. 13-14 (DB, VB), 69, fig. 7 (chromosomes), 70 (idiogram). Nagasaki Pref., Kyûshû / Japan.

BFC39. P. 113. (Under *Bipaliium*). *Diversibipalium* sp. Nagasaki-4. Kawakatsu & al., 2000. Add the following item.

Diversibipalium sp. Nagasaki-4: Yamamoto 2003a: 65, 68, figs. 15-16 (DB, VB), 69, fig. 8 (chromosomes), 70 (idiograms). Nagasaki Pref, Kyûshû / Japan.

BFC39. P. 113. (Under *Bipalium*). *Diversibipalium* sp. Nagasaki-5. Kawakatsu & al., 2000. Add the following items.

Bipalium sp. Nagasaki-5: Yamamoto, 2002: 37-43, figs. A-P (DB, VB, chromosomes), Idiograms. Nagasaki Pref., Kyûshû / Japan.

Diversibipalium sp. Nagasaki-5: Yamamoto, 2003a: 65, 68. figs. 17-18 (DB, VB), 69, figs. 9-10 (chromosomes), 70 (idiogram).

Note. For 5 undescribed *Diversibipalium* spp. from Nagasaki, color photographs of live specimens and their idiograms can be seen in the following web article:
http://planarian.net/kswp/40/Nagasaki.pdf

B. RHYNCHODEMIDAE INDEX, PART I: RHYNCHODEMINAE (1988: Bull Fuji Women's College, No. 26, Ser. II 39-91; 1992: *Ibid.*, No. 30, Ser II, pp. 75-78; 1993: *Ibid.*, No. 31, Ser. II, p. 81; 1994: *Ibid.*, No. 32, Ser. II, p. 76; 1995: *Ibid.*, No. 33, Ser. II, p. 81; 1996: *Ibid.*, No. 34, Ser. II, p. 89; 1997: *Ibid.*, No. 35, Ser. II, pp. 56-57; 1998: *Ibid.*, No. 36, Ser. II, 76; 1999: *Ibid.*, No. 37, Ser. II, 101-103; 2000: *Ibid.*, No. 38, Ser. II, 85 86; 2002: Bull. Fuji Women's Univ., No. 40. Ser. II, p. 166).

BFC26. Pp. 64-65. *Platydemus manokwari* de Beauchamp, 1962. Add the following items.

Platydemus manokwari Itô, 1992: 434. Ryûkyû Islands, Okinawa Pref. / Japan.

Platydemus manokwari: Kaneda, Kitagawa, Nagai & Ichinohe, 1992: 7-11, figs. 1-3 (physiological graphs). Culture stock of animals from the Philippines at Yokohama Plant Protection Station. Cf. Kaneda, Kitagawa & Ichinohe (1990); Kawakatsu, Ogren & Muniappan (1992).

Platydemus manokwari: Nishikawa, 1992: 431. Ryûkyû Islands, Okinawa Pref. / Japan.

A land planarian (=*Platydemus manokwari*): Asato, Taira, Kudaka, Itokazu & Nakamura. 2002: 20-21. Ryûkyû Islands, Okinawa Pref. / Japan.

Note. *Angiostrongylus cantonensis* has been found in Okinawa Prefecture (the Ryûkyû Islands, etc.) in Southern Japan. A giant African snail, *Achatina fulica*, is one of hosts of *A. cantonensis* in Okinawa. *Platydemus manokwari*, a land planarian species recently invaded into Okinawa, seems to be one of intermediate hosts.

Platydemus manokwari: Ohkochi, 2002: 167. Ogasawara Islands / Japan.

[Planaria, kôgai-biru]: Asato, Taira, Kudaka, Itokazu & Nakamura, 2002: 20-21. Okinawa / Japan.

Platydemus manokwari: Asato, Taira, Kudaka, Nakamura & Itokazu, 2003: 10-14, 24 (photographs 6-7). Okinawa / Japan.

Platydemus manokwari: Tanaka, 2003: 138. Okinawa Pref. / Japan.

BFC26. Pp. 78-81. *Rhynchodemus sylvaticus* (Leidy, 1851). Add the following items.

Rhynchodemus bilineatus: Bandier, 1936: 317-345, figs. 4, 6-8, 10-15 (HF).

Rhynchodemus sylvaticus: Košel, 2001: 80. Czech Republic

UNDESCRIBED RHYNCHODEMIDAE (Rhynchodem-

inae) SPECIES (1998: BFC26, pp. 82-84; 1992: BFC30, p. 78; 1994: BFC32, p. 76; 1997: BFC35, p. 57; 2000: BFC38, p. 86).

None reported during the past year.

C. RHYNCHODEMIDAE INDEX, PART II : MICROPLANINAE (1989: Bull Fuji Women's College, No. 27, Ser. II, pp. 53-111; 1992: *Ibid.*, No. 30, Ser. II, 78-80; 1993: *Ibid.*, No. 31, Ser. II, pp. 81-82; 1994: *Ibid.*, No. 32, Ser. II, 76-77; 1995: *Ibid.*, No. 33, Ser. II, p. 81; 1996: *Ibid.*, No. 34, Ser. II, p. 89; 1997: *Ibid.*, No. 35, Ser. II, p. 57; 1998: *Ibid.*, No. 36, Ser. II, pp. 76-77; 2000: *Ibid.*, No. 38, Ser. II, 86-89; 2002: Bull. Fuji Women's Univ., No. 40. Ser. II, p. 167).

BFC27. P. 66. *Microplana humicola* Vejdovský, 1890. Add the following items.

Microplana humicola: Košel, 2001: 80. Czech and Slovakia.

Rhynchodemus cf. *humicola*: Košel, 2002: 38. Slovakia.

BFC27. Pp. 70-71. *Microplana scharffi* (von Graff, 1896). Add the following item.

Microplana scharffi: Košel, 2001: 79 80. Czech Republic.

BFC27. Pp. 72-77. *Microplana terrestris* (Müller, 1774). Add the following items.

Rhynchodemus terrestris: Bandier, 1936: 317-345, figs. 1, 5, 9 (HF).

Microplana terrestris: Košel, 2001: 80. Czech and Slovakia.

Microplana terrestris: Alvarez & Almeida, 2002: 235.

Rhynchodemus terrestris: Košel, 2002: 38. Slovakia.

UNDESCRIBED RHYNCHODEMIDAE (Microplaninae) SPECIES (1988: BFC26, pp. 82-84; 1997: BFC35, p. 57; 2000: BFC38, p. 89).

None reported during the past year.

D. GEOPLANIDAE INDEX, PART I: GEOPLANINAE (1990: Bull. Fuji Women's College, No. 28, Ser. II, pp. 79-166; 1992: *Ibid.*, No. 30, Ser. II, pp. 80-89; 1993: *Ibid.*, No. 31, Ser. II, p. 82; 1994: *Ibid.*, No. 32, Ser. II, p. 77; 1995: *Ibid.*, No. 33, Ser. II, pp. 81-82; 1998: *Ibid.*, No. 36, Ser. II, 77-78; 2000: *Ibid.*, No. 38, Ser. II, 89-91; 2002: Bull. Fuji Women's Univ., No. 40,, Ser. II, pp. 167-168).

Note. A taxonomic confusion is found in "several species of *Notogynaphallia marginata* complex" reported in the previous papers. Cf. BFC30: 85-86. *Notogynaphallia caissara* (E. M. Froehlich, 1955). See also BFC30: 86-87. *Notogynaphallia marginata* (von Graff, 1899) and BFC30: 84. '*Pseudogeoplana marginata* (Schultze et Müller, 1857) comb. nov.'

Revisional study on this problem including new species descriptions is now in progress by Dr. Leal-Zanchet and Froehlich. See '*Geoplana marginata* sensu von Graff, 1899' and '*Geoplana marginata* sensu Marcus, 1951' listed at the end of the succeding section in the present paper: UNDESCRIBED GEOPLANIDAE (Geoplaninae) SPECIES.

BFC28. Pp. 95-96. BFC30. P. 81. *Choeradoplana iheringi* von Graff, 1899. Add the following item.

Choeradoplana iheringi: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula. RS / Brazil.

BFC28. Pp. 97-98. *Geobia subterranea* (Schultze & Müller, 1857). Add the following item.

Geobia subterranea: Silveira, 1998: 191, 194. Brazil.

BFC28. P. 116. BFC30. P. 83. *Geoplana (Geoplana) burmeisteri* Schultze & Müller, 1857. Add the following item.

Geoplana burmeisteri: Alvarez & Almeida, 2002: 235-238, figs. 1-4 (karyograms: 2x=14, 4x=28, 8x=56). São Paulo and the vicinity.

BFC28. P. 117. *Geoplana (Geoplana) carinata* Riester, 1938. Add the following item.

Geoplana carinata: Alvarez & Almeida, 2002: 238.

BFC39. P. 115. *Geoplana (Geoplana) franciscana* Leal-Zanchet & Carbayo, 2001. Add the following item.

Geoplana franciscana: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula, RS / Brazil.

BFC40. Pp. 167-168. *Geoplana (Geoplana) josefi* Carbayo & Leal-Zanchet, 2001. Add the following item.

Geoplana josefi : Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula. RS / Brazil.

BFC28. P. 123. BFC30. P. 84. *Geoplana (Geoplana) ladislavii* von Graff. 1899. Add the following item.

Geoplana ladislavii : Carbayo, Leal-Zanchet & Vieira, 2002. 1091-1102. National Forest of São Francisco de Paula, RS / Brazil.

BFC28. P. 128. *Geoplana (Geoplana) notocelis* Bresslau, 1930. Add the following item.

Geoplana notocelis: Bandier, 1936: 320.

BFC28. P. 129. *Geoplana (Geoplana) pavani* Marcus, 1951. Add the following item.

Geoplana pavani ?: Carbayo, Leal Zanchet & Vieira, 2002: 1091-1102. National Forest of

São Francisco de Paula, RS / Brazil.

BFC39. P. 116. *Notogynaphallia guaiana* Leal-Zanchet & Carbayo, 2001. Add the following item.

Notogynaphallia guaiana: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula, RS / Brazil.

BFC28. P. 147. *Pasipha pasipha* (Marcus, 1951). Add the following item.

Geoplana pasipha : Silveira, 1998: 191, 194-195, fig. 9 (electrophotomicrograph). Brazil.

Geoplana pasipha : Fernandes, Alvarez, Gama & Silveira, 2001: 177. Brazil.

BFC28. P. 159. *Pseudogeoplana pallida* (Darwin, 1844). Add the following item.

Geoplana pallida : Bandier, 1936: 317-326, figs. 2-3 (HF).

BFC28. P. 159. *Pseudogeoplana pulla* (Darwin, 1844). Add the following item.

Geoplana pulla: Bandier, 1936: 317, 319, 331, 340.

UNDESCRIBED GEOPLANIDAE (Geoplaninae) SPECIES (1990: BFC28, pp. 162-165; 1994: BFC32, p. 77; 2000: BFC38, p.91; 2002: Bull. Fuji Women's Univ., No. 40, Ser. II, p. 168).

Note. Twenty undescribed geoplanid species (2 spp. in *Choeradoplana*, 6 spp. in *Geoplana*, 3 spp. in *Notogynaphallia* , 2 spp. in *Pasipha* , 1 sp. in *Xerapoa* and 6 spp. of Geoplanidae) are listed by Carbayo, Leal-Zanchet & Vieira (2002, tables 1 and 4). It is a reasonable taxonomic treatment that these undescribed species are placed in the collective group *Pseudogeoplana* (cf. Ogren & Kawakatsu, 1990: 90, 152). In the present Index, however, they are tentatively listed according to the names used by the original authors.

Choeradoplana sp. 1 in Carbayo & al., 2002.

Choeradoplana sp. 1: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula, RS / Brazil.

Choeradoplana sp. 2 in Carbayo & al., 2002.

Choeradoplana sp. 2: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula, RS / Brazil.

Geoplana sp. 1 in Carbayo & al., 2002.

Geoplana sp. 1: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula, RS / Brazil.

Geoplana sp. 2 in Carbayo & al., 2002.

Geoplana sp. 2: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula. RS / Brazil.

Geoplana sp. 3 in Carbayo & al., 2002.

Geoplana sp. 3: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula, RS / Brazil.

Geoplana sp. 4 in Carbayo & al., 2002.

Geoplana sp. 4: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula, RS / Brazil.

Geoplana sp. 5 in Carbayo & al., 2002.

Geoplana sp. 5: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula, RS / Brazil.

Geoplana sp. 6 in Carbayo & al., 2002.

Geoplana sp. 6: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula. RS / Brazil.

Notogynaphallia sp. 1 in Carbayo & al., 2002.

Notogynaphallia sp. 1: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula, RS / Brazil.

Notogynaphallia sp. 2 in Carbayo & al., 2002.

Notogynaphallia sp. 2: Carbayo. Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula. RS / Brazil.

Notogynaphallia sp. 3 in Carbayo & al., 2002.

Notogynaphallia sp. 3: Carbayo. Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula, RS / Brazil.

Pasipha sp. 1 in Carbayo & al., 2002.

Pasipha sp. 1: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula, RS / Brazil.

Pasipha sp. 2 in Carbayo & al., 2002.

Pasipha sp. 2: Carbayo. Leal-Zanchet & Vieira, 2002: 1091-1102., National Forest of São Francisco de Paula, RS / Brazil.

Xerapoa sp. 1 in Carbayo & al., 2002.

Xerapoa sp. 1: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula, RS / Brazil.

Geoplanidae sp. 1 in Carbayo & al., 2002.

Geoplanidae 1: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula. RS / Brazil.

Geoplanidae sp. 2 in Carbayo & al., 2002.

Geoplanidae 2: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula, RS / Brazil.

Geoplanidae sp. 3 in Carbayo & al., 2002.

Geoplanidae 3: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula. RS / Brazil.

Geoplanidae sp. 4 in Carbayo & al., 2002.

Geoplanidae 4: Carbayo. Leal-Zanchet & Vieira,, 2002: 1091-1102. National Forest of São

Francisco de Paula. RS / Brazil.

Geoplanidae sp. 5 in Carbayo & al., 2002.

Geoplanidae 5: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula. RS / Brazil.

Geoplanidae sp. 6 in Carbayo & al., 2002.

Geoplanidae 6: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula, RS / Brazil.

Geoplana marginata sensu von Graff, 1899, in Carbayo, Leal-Zanchet & Vieira, 2002.

Geoplana marginata sensu von Graff, 1899: Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula, RS / Brazil.

Froehlich's Note. At present *Geoplana marginata* sensu von Graff, 1899, is the correct denomination of the species *Geoplana marginata* (in part): von Graff (1894, 1896, 1899, 1912-1917) in the list of synonyms of '*Notogynaphallia marginata* (von Graff, 1899) comb. nov.' in BFC30 (pp. 86-87). It has been erroneously quoted as '*Notogynaphallia marginata* sensu Graff, 1899' in Leal-Zanchet & Froehlich (2001: 225) and Carbayo, Leal-Zanchet & Vieira (2001: 223-224). Cf. BFC39 (pp. 116-117).

Geoplana marginata sensu Marcus, 1951: Carbayo, Leal-Zanchet & Vieira, 2002.

Geoplana marginata sensu Marcus, 1951, in Carbayo, Leal-Zanchet & Vieira, 2002: 1091-1102. National Forest of São Francisco de Paula, RS / Brazil.

Froehlich's Note. At present *Geoplana marginata* sensu Marcus, 1951, in Carbayo, Leal-Zanchet & Vieira (2002: 1091-1102) is the correct denomination of *Geoplana marginata* (in part): Marcus (1951). It appears in the list of synonyms of '*Notogynaphallia marginata* (von Graff, 1899) comb. nov.' in BFC30 (pp. 86-87), in BFC28 (pp. 124-125), and under UNDESCRIBED GEOPLANIDAE (Geoplaninae) SPECIES in BFC39 (p. 117).

It has been erroneously quoted as *Notogynaphallia marginata* sensu Marcus, 1951, in Leal-Zanchet & Froehlich (2001: 225) and in Carbayo, Leal-Zanchet & Vieira (2001: 223-224). Cf. BFC39 (pp. 116-117). It is the same as *Geoplana marginata auctorum*: Almeida, Yamada & Froehlich, 1990 (p. 48) and 1991 (pp. 169-173). It is also the same as *Notogynaphallia marginata* in Rocini, Alvarez & Almeida (2000).

E. GEOPLANIDAE INDEX, PART II: CAENOPLANINAE AND PELMATOPLANINAE (1991: Bull. Fuji Women's College, No. 29, Ser. II, pp. 25-102; 1992: *Ibid.*, No. 30, Ser. II, p. 89; 1993: *Ibid.*, No. 31, Ser. II, pp. 82-83; 1994: *Ibid.*, No. 32, Ser. II, pp. 77-82; 1995: *Ibid.*, No. 33, Ser. II, pp. 81-82; 1996: *Ibid.*, No. 34, Ser. II, p. 90; 1997: *Ibid.*, No. 35, Ser. II, pp. 58-59; 1999: *Ibid.*, No. 37, Ser. II, pp. 94-97; 2000: *Ibid*, No. 38, Ser. II, pp. 91-94; 2002: Bull. Fuji Women's Univ., No. 40, Ser. II, pp. 168-170).

None reported during the past year.

UNDESCRIBED GEOPLANIDAE (Caenoplaninae) SPECIES (1991: BFC29, pp. 95-96; 1994: BFC32, p. 82; 1997: BFC35, p. 59; 1998: BFC36, p. 78; 2000: BFC38, pp. 94-95; 2002: Bull. Fuji Women's Univ., No. 40, Ser. II, p. 170.)

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